DENBIGHSHIRE COUNTY COUNCIL.

ANNUAL REPORT

on the

HEALTH OF DENBIGHSHIRE

for the

Year 1940

by

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PREFACE.

To the Chairman and Members of the Public Health; Public Assistance and Housing Committee.

Mr. Chairman, Ladies and Gentlemen,

Annual Report, 1940.

Owing to the stress of circumstances and at the express wish of the Ministry of Health, this report is substantially reduced as compared with reports prepared under more favourable conditions.

So far as I personally am concerned, I have been engaged to a considerable extent in the preparation of hospital provision for possible civil or military cases and developing the casualty service of the A.R.P. organisation in the County. Although these duties have necessitated my being domiciled in Ruthin since the commencement of the war, the functions of the department in Wrexham, where all public health activities are concentrated, have worked smoothly and it is a pleasure to record my appreciation of the loyalty of the staff there and the conscientious manner in which they have performed their many tasks.

There has been no depletion or alteration in the personnel of the department during the year, with the exception of the calling-up of two clerks for military service.

I wish to thank the Committee for their whole-hearted support of all my recommendations, and also to Mr. William Jones, C.B.E., Clerk of the County Council and his Deputy, Mr. William Roberts, for their helpful co-operation at all times.

I am,

Your obedient Servant,

H. ARWEL THOMAS.

County Medical Officer.

COUNTY OF DENBIGH. Table I. Vital Statistics, 1940.

District	Estimated Population	No. of Births		Birth-rate	No. of infant deaths under 1 year of age	Infant Mortality Rate	No. of Deaths	Death-rate
		for birth-rate calculation	for infant death rate, etc.					
Urban.								
Abergele	7062	88	91	12·4	4	43·9	100	14·1
Colwyn Bay	24940	203	218	8·0	8	36·9	393	15·9
Denbigh	8310	131	132	15·7	12	90·9	101	12·1
Llangollen	3180	36	36	11·3	1	27·7	50	15·7
Llanrwst	2559	38	40	14·8	—	—	44	17·1
Ruthin	3389	42	44	12·3	—	—	32	9·4
Wrexham	28170	480	484	17·0	62	128·0	425	15·0
Total Urban	77610	1018	1045	13·1	87	83·2	1145	14·7
Rural.								
Aled	6745	108	110	16·0	6	54·5	81	12·0
Ceiriog	7287	94	94	12·9	1	10·6	89	12·2
Hiraethog	5641	69	69	12·2	6	86·9	90	15·9
Ruthin	9497	124	128	13·0	7	54·6	128	13·4
Wrexham	60760	982	992	16·1	85	85·6	1013	16·6
Total Rural	89930	1377	1393	15·3	105	75·3	1401	15·6
Total County	167540	2395	2438	14·2	192	78·7	2546	15·1

STATISTICS.

Live Births :—

	Male.	Female.	Total.
Legitimate	1147	1121	2268
Illegitimate	67	60	127
Birth,-rate per 1000 of the estimated resident population		14·2	
Still-births	50	66	116
Rate per 1000 (live and still-births)		15·2	
Deaths	1276	1270	2546
Rate per 1000 of the estimated resident population		15·1	

	Deaths.	Rate per 1000 total Live and Still Births
Deaths from Puerperal Causes :—		
Puerperal and post-abort Sepsis	3	1·1
Other Maternal Causes	6	2·3
Death-rate of Infants under one year of age :—		
All infants per 1000 live births		78·7
Legitimate infants per 1000 legitimate births ...		81·5
Illegitimate infants per 1000 illegitimate births		55·1

Staff.

There were no changes in the personnel of the staff during the year.

Births.

2395 births were notified as belonging to the County of Denbigh during the year 1940, the birth-rate being 14·2. These figures compared with 2246 and 14·2 in 1939.

Deaths.

2546 deaths were notified in the County during the year 1940, or a death-rate of 15·1. The respective figures for 1939 were 2189 and 13·6.

Infant Mortality.

The number of deaths of children under 1 year of age in the County during 1940 was 192 or 78·7 as compared with 129 or 57·2 for the year 1939.

TABLE II. Causes of Infant Deaths, 1940.

DISEASE.	Districts			
	Urban		Rural	
	Male	Female	Male	Female
Bronchitis	3	3	4	4
Diarrhoea (under 2 years)	2	1	5	3
Other Digestive Diseases	1	—	2	—
Other Tuberculous Diseases	—	—	1	2
Pneumonia (all forms)	13	6	9	6
Other Violence	2	—	1	—
Cerebro-Spinal Fever	5	1	1	1
Whooping Cough	1	1	—	—
Measles	—	1	—	—
Influenza	—	—	1	—
Premature Birth	10	15	15	11
Cong. Mal; Birth Inj; Inf. Dis.	14	5	15	15
All other Causes	—	3	6	3
	51	36	60	45

TABLE III. Births and Infantile Deaths Allocated to Areas.

Districts	Births				Deaths under 1 year of age			
	Legitimate		Illegitimate		Legitimate		Illegitimate	
	M	F	M	F	M	F	M	F
Urban.								
Abergele U.	39	42	3	4	2	—	2	—
Colwyn Bay Borough	97	94	3	9	5	3	—	—
Denbigh Borough	65	61	3	2	7	4	1	—
Llangollen U.	16	18	2	—	1	—	—	—
Llanrwst U.	17	20	—	1	—	—	—	—
Ruthin Borough	23	18	1	—	—	—	—	—
Wrexham Borough	225	230	14	11	32	29	1	—
Total Urban	482	483	26	27	47	36	4	—
Rural.								
Aled R.	60	44	3	1	4	2	—	—
Ceiriog R.	47	41	4	2	1	—	—	—
Hiraethog R.	32	30	5	2	5	1	—	—
Ruthin R.	56	54	3	11	4	3	—	—
Wrexham Rural	470	469	26	17	44	38	2	1
Total Rural	665	638	41	33	58	44	2	1
Total County	1147	1121	67	60	105	80	6	1

MATERNAL MORTALITY.

The following table gives the figures for the past ten years :—

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
Maternal Mortality Rate	7·9	6·2	7·1	6·3	4·4	3·7	2·07	3·4	4·0	3·5
Puerperal Sepsis	7	5	8	8	5	2	—	1	3	3
Other Puerperal Causes	12	10	9	7	6	7	5	7	6	6
Total	19	15	17	15	11	9	5	8	9	9

INFECTIOUS DISEASES.

TABLE IV (a).

The following table furnishes particulars respecting the notifications received during 1940, and for comparative purposes the nine preceding years are shewn:—

Disease	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
Diphtheria	1059	760	657	705	440	586	750	405	276	407
Erysipelas	42	46	63	55	62	63	53	70	347	71
Scarlet Fever	507	220	259	313	473	586	324	295	20	317
Enteric Fever (including Typhoid and Paratyphoid)	8	6	11	7	3	3	6	1	4	16
Puerperal Fever	7	8	10	9	3	11	5	...	...	..
Puerperal Pyrexia	25	18	22	8	23	17	25	34	24	12
Cerebro-spinal Fever	...	1	3	3	1	...	...	...	11	192
Acute Poliomyelitis	...	10	1	...	...	1	...	1	1	6
Ophthalmia Neonatorum	11	13	13	11	12	20	12	15	11	12
Pulmonary Tuberculosis	197	183	177	183	229	197	195	210	180	218
Other Forms of Tuberculosis	59	76	77	63	82	82	63	84	53	72
Pneumonia	146	157	225	191	143	138	183	160	180	341
Encephalitis Lethargica	4	3	3	...	2	...	2	...	1	1
Acute Polio-encephalitis	...	1	...	...	...	...	...	2	...	...
Dysentery	2	1	...	1	...	9	...	...	71	119
Measles (excl. German Measles)	...	...	...	...	1	...	...	...	...	2373
Malaria.	...	...	...	...	...	...	1	...	30	
Whooping Cough	...	...	...	...	...	...	...	...		394
Totals	2067	1503	1521	1549	1474	1713	1619	1277	1209	4551

TABLE IV (b).

The allocation of the several Infectious Diseases to the Sanitary Authorities is shown in the following table:—

District	Pneumonia	Scarlet Fever	Pulmonary Tuberculosis	Other Forms of Tuberculosis	Ophthalmia Neonatorum	Acute Poliomyelitis	Erysipelas	Enteric Fever	Cerebro-spinal Fever	Diphtheria	Puerperal Pyrexia	Encephalitis Lethargica	Measles (excluding German Measles)	Whooping Cough	Dysentery	Chickenpox
Abergele	6	7	9	3	...	...	12	1	5	20	...	...	140	13	1	...
Aled	5	11	9	5	1	...	4	4	...	2	2	...	68	3	45	...
Ceiriog	...	5	6	2	...	...	1	...	1	5	...	...	20	3	...	5
Colwyn Bay	43	18	26	10	2	3	13	...	9	73	2	...	129	46	...	1
Denbigh	4	19	16	5	...	...	4	...	13	22	...	...	87	2	23	...
Hiraethog	6	6	9	2	...	...	...	...	...	1	...	...	51	2	50	...
Llangollen Urban	4	1	5	1	...	...	...	...	4	8	...	...	8	12	...	...
Llanrwst Urban	...	9	4	1	...	...	...	...	2	7	...	...	21	1	...	...
Ruthin Borough	7	22	4	1	2	...	8	3	1	...	1	...	164	4	...	...
Ruthin Rural	16	28	14	4	1	1	3	2	3	10	...	...	205	...	...	...
Wrexham Borough	131	63	38	8	5	...	6	4	68	100	3	1	590	97	...	...
Wrexham Rural	119	128	78	30	1	2	20	2	86	159	4	...	890	211	...	...
Totals	341	317	218	72	12	6	71	16	192	407	12	1	2373	394	119	6

INFECTIOUS DISEASES.

The following table gives the number of deaths from Infectious Diseases notified during the year, also the figures for the years 1938 and 1939 :—

	1938	1939	1940
Typhoid and Paratyphoid	—	—	—
Measles	3	1	3
Scarlet Fever	—	—	1
Whooping Cough	9	2	5
Diphtheria	29	11	21
Encephalitis Lethargica	5	9	2
Cerebro-Spinal Fever	—	2	30
Tuberculosis. Pulmonary	79	80	81
Tuberculosis. Non-Pulmonary	15	14	24

Home Helps.

17 Home Helps were engaged and supplied to attend mothers before, during and after confinement.

Orthopædic Treatment.

The table on page xiv furnishes particulars of the County patients dealt with by the Robert Jones and Agnes Hunt Orthopaedic Hospital during the year.

COUNTY OF DENBIGH.

TABLE V. Causes of Death, 1940.

Disease	Abergele.	Aled.	Ceiriog.	Colwyn Bay.	Denbigh.	Hiraethog.	Llangollen.	Llanrwst.	Ruthin Borough.	Ruthin Rural.	Wrexham Boroug	Wrexham Rural.	Totals.
Typhoid and Para-typhoid Fever	...	...	...	...	...	...	...	...	...	...	...	...	...
Cerebro-Spinal Fever	...	...	1	3	3	...	2	...	...	...	6	15	30
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	1	1
Whooping Cough	...	...	...	1	...	...	...	...	...	...	2	2	5
Diphtheria	...	...	...	3	...	1	...	...	...	1	5	11	21
Tuberculosis of the Resp. Syst.	4	4	1	12	6	5	1	2	...	5	11	30	81
Other Forms of Tuberculosis	...	...	...	2	2	...	...	2	...	1	6	11	24
Syphilitic Diseases	...	...	...	2	...	...	...	...	...	1	4	2	9
Influenza	5	2	3	27	3	6	2	6	2	7	9	18	90
Measles	...	...	...	...	...	...	...	...	...	...	1	2	3
Ac. polio-myel and polio. enceph.	...	...	...	...	...	...	...	...	...	...	...	...	...
Ac. Inf. enceph.	...	...	...	...	...	...	...	...	...	...	1	1	2
Cancer of b. cav. and oesoph. (M) Uterus (F)	1	...	...	4	...	2	1	...	1	1	4	16	30
Cancer of stomach and duodenum	2	1	3	11	3	4	...	3	2	7	12	26	74
Cancer of breast	3	3	...	7	1	...	1	...	...	...	5	10	30
Cancer of all other sites	9	4	4	28	8	6	6	2	1	8	23	62	161
Diabetes	2	...	...	4	1	1	1	...	1	2	4	8	24
Intra. cran. vasc. lesions	11	11	20	58	14	7	7	5	7	12	44	108	304
Heart Disease	17	20	20	83	24	20	14	7	7	24	87	203	526
Other Circ. Dis.	2	3	1	26	4	1	2	...	3	1	7	13	63
Bronchitis	8	1	5	23	5	8	6	6	...	8	39	105	214
Pneumonia	7	7	5	22	3	...	2	1	1	6	42	73	169
Other Resp. Dis.	2	3	1	10	1	4	...	...	...	...	5	18	44
Ulcer of stomach or duodenum	...	...	1	3	1	...	...	...	...	...	2	8	15
Diarrhoea (under 2 years)	...	1	...	...	1	...	...	...	...	1	2	7	12
Appendicitis	...	...	...	3	1	...	...	...	...	...	2	7	13
Other Digve. Dis.	2	1	1	7	1	5	1	2	1	3	6	21	51
Nephritis	..	4	8	12	6	5	...	3	2	5	9	33	87
Puer. and post. abort. sepsis	...	...	...	1	...	...	...	...	...	...	1	1	3
Other maternal causes	...	...	...	...	...	1	...	...	...	...	...	5	6
Prem. Birth	2	3	...	1	3	4	...	...	...	1	19	18	51
Con. mal. birth inj. infant dis.	2	1	1	4	4	...	...	...	...	3	11	27	53
Suicide	1	...	1	1	...	...	...	1	...	4	2	5	15
Road Traffic Ac.	2	...	...	3	...	...	...	1	...	...	2	14	22
Other violent causes	5	1	6	4	...	1	...	2	2	5	11	45	82
All other causes	13	11	7	28	6	9	4	1	2	22	41	87	231
All causes	100	81	89	393	101	90	50	44	32	128	425	1013	2546

The number and percentage of Deaths at different Age Periods are given below :—

Age Period.	No. of Deaths.	Percentage of Total Deaths.
0— 1 ...	192 ...	7·5
1— 5 ...	80 ...	3·1
5—15 ...	63 ...	2·4
15—45 ...	248 ...	9·7
45—65 ...	601 ...	23·6
65 and upwards	1362 ...	53·4
Totals ...	2546 ...	15·1

LABORATORY FACILITIES.

The Laboratories undertaking examinations for the County are :—

The Pathological Laboratory, Chester Royal Infirmary.

Wrexham and East Denbighshire War Memorial Hospital.

University College of North Wales.

Wrexham Joint Fever Hospital.

Welsh National Memorial Association.

Food and Drugs Acts.

Analyses undertaken by Mr. F. A. Lowe County Analyst, Chester.

AMBULANCE SERVICE.

Wrexham Division (St. John's).

No. of cases conveyed	1742
Mileage	14578
Accidents	98
Mileage	604
Total cases 1840. Mileage	15182
First Aid cases treated	287
Station Duty Hours	11881
Attendances with Ambulance	3503
Public functions attended	337

Rhosllanerchrugog Division (St. John's).

Patients removed to Hospitals, etc.	305
Mileage	3419
Hours given voluntarily	469

Colwyn Bay and District.

Total cases	401
Fatal	3
Other accidents	65
Admissions to hospital, etc.	215
Transport from house to house	56
Transport out of district	62
Total mileage	6471
Ambulance case hours	624
Personnel case hours	2496

Oswestry and District (portion of District in County of Denbigh).

Journeys	275
Mileage	6824

Denbigh District.

The Ambulance in Denbigh, purchased by the Denbigh Rotarians, and presented to the Borough Council, is used for Maternity, sickness and accident cases.

TABLE VI. Hospital Accommodation.

Name of Hospital	BEDS				Total	
	Males	Females	Child	Others		
VOLUNTARY						
Wrexham War Memorial Hospital... ...	65	46	18	41	108	E.M.S. Beds 50; and 78 in Annexe
Colwyn Bay and West Denbighshire Hospital	26	24	10	...	60	
Denbighshire Infirmary, Denbigh	15	22	3	5	45	
Chirk and District Cottage Hospital ...	12	6	2	6	26	Private Wards, 6
Llangollen Cottage Hospital	4	6	...	...	10	
	122	104	33	52	311	
PUBLIC ASSISTANCE						
Croesnewydd, Wrexham					192	
Ruthin	20	20	8	5	53	
	20	20	8	5	245	
FEVER HOSPITALS						
Wrexham Joint Fever Hospital					108	
Bronynant Isolation Hospital, Colwyn Bay					31	
St. Asaph Joint Isolation Hospital					87	
Croesynyd Hospital, Conway	46	57	...	...	103	
Small-pox Hospital (Rhydtalog)					12	
Penrhos College Sanatorium					50	
					391	
COUNTY MATERNITY HOSPITAL						
Ruabon		12			12	Temporary Hospital

TABLE VII.

Summary of Work of Health Visitor.

District	Notified No. of Births	No. of First Visits	No. of visits to children under 1 year	No. of visits to children 1—5 years	Expectant Mothers	
					First Visits	Total
Rhos and Penycae	197	189	970	1692	35	92
Rhostyllen, Marchwiel, Isycoed and Abenbury	101	138	764	1654	38	91
Coedpoeth, Southsea, New Broughton	140	143	566	1375	14	19
Brymbo, Broughton, Summerhill	146	169	860	863	12	17
Llay, Gresford, Rhosrobin	221	209	1323	969	24	42
Llangollen and Cefn	128	89	229	894	34	40
Denbigh, Abergele and Aled Rural	235	264	1085	1120	25	39
Llanrwst area	118	130	737	1182	41	45
Llansilin, Chirk and Glyn Ceiriog	122	158	793	2189	38	54
Ruthin Borough, Ruthin Rural and Cerrig	176	163	1000	1407	27	27
	1584	1652	8331	13345	288	466

ADMINISTRATIVE COUNTY OF DENBIGH

TABLE VIII. Excluding Municipal Boroughs of Wrexham and Colwyn Bay.

Diagnosis.	Total Treated			Cured.			Improved.			Ceased to Attend			Left district.			Treated elsewhere.			No improvement.			Died.			On books 31/12/40			On Appliance Supervision		
Age	–5	5–16	16+	–5	5–16	16+	–5	5–16	16+	–5	5–16	16+	–5	5–16	16+	–5	5–16	16+	–5	5–16	16+	–5	5–16	16+	–5	5–16	16+	–5	5–16	16+
1 Arthritis	1	13	101	1	...	3	...	...	8	...	1	11	...	1	2	...	1	5	...	...	...	...	...	...	...	10	62	...	...	10
2 Congenital Deformities	51	44	13	...	1	1	5	3	1	5	...	1	2	...	...	1	...	...	...	...	...	1	...	...	37	40	9	...	...	1
3 Claw Foot	1	19	26	...	...	1	...	2	1	...	2	6	...	...	2	...	...	...	...	...	...	...	...	...	1	15	13	...	...	3
4 Erb's Palsy	3	4	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	4	3	...	...	...
5 Flat Foot	26	81	112	1	2	1	...	3	2	6	16	27	...	...	3	...	...	...	...	...	1	...	...	...	19	60	71	...	...	7
6 Hallux Rigidus	...	4	20	...	...	1	...	...	...	...	2	5	...	...	...	...	...	...	...	...	...	...	...	...	...	2	13	...	...	1
7 Hallux Valgus	1	5	14	...	...	...	...	...	...	...	4	4	...	...	...	...	...	...	...	...	...	...	...	...	1	1	10	...	...	...
8 Injuries	7	41	197	6	12	27	...	4	40	...	4	25	...	...	2	...	1	5	...	...	...	...	...	1	1	20	92	...	...	5
9 Knock-knees	15	27	4	...	2	...	...	2	...	3	5	2	...	...	...	...	...	...	...	...	...	...	...	...	12	18	2	...	...	...
10. Osteomyelitis	...	8	9	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	7	...	...	1
11 Poliomyelitis	3	26	35	...	...	...	...	1	1	...	...	...	...	...	1	...	...	1	...	...	...	...	1	...	3	25	16	...	...	16
12 Rickets	22	12	...	4	1	...	2	...	...	4	4	...	...	...	...	...	...	...	...	...	...	...	...	...	12	7	...	...	...	...
13 Postural Defects	1	13	3	...	...	...	...	...	...	...	5	2	...	...	...	...	...	...	...	...	...	...	...	...	1	8	...	...	...	1
14 Scoliosis	2	8	29	...	...	1	...	...	1	...	...	3	...	...	...	...	...	...	...	...	...	...	...	2	2	8	18	...	...	4
15 Spastic Diplegia	1	2	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	2	1	...	...	...
16 Spastic Hemiplegia	2	10	7	...	...	...	...	...	1	...	4	...	...	...	...	...	...	1	...	...	...	...	...	1	2	6	3	...	...	1
17 Spastic Monoplegia	1	4	1	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	1	2	1	...	...	...
18 Spastic Paraplegia	3	8	5	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	3	8	3	...	...	...
19 Perthe's Disease	...	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	1	...	...	...
20 Osteo-Chondritis	...	1	4	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	4	...	...	...
21 Torticollis	8	7	...	4	...	...	1	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	7	...	...	...	...
22 Fibrositis	...	...	4	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...
23 Spasmodic Flat Foot	...	2	6	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	...	...	2
24 Others	27	39	105	5	7	12	...	...	14	6	13	19	...	...	4	...	...	2	...	...	1	...	...	2	16	19	48	...	...	4
Totals	175	381	701	21	26	50	8	15	70	27	62	108	2	1	14	1	2	14	...	...	2	1	1	6	115	274	381	...	...	56
	1257			431																					770			56		

Preventive Cases.

1 Claw Foot	...	8	...	...	1	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	
2 Flat Foot	49	225	18	1	2	...	...	1	1	19	69	12	...	1		...	...	...	...	...	...	...	...	...	29	152	5
3 Knock-knees	26	51	2	...	...	...	...	3	...	8	17	1	...	...	...	...	...	...	...	...	...	...	...	...	18	31	1
4 Rickets	4	3	...	...	...	...	...	...	...	2	2	...	...	...	...	...		...	...	...	...	...	...	...	2	1	...
5 Postural Defects	...	3	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...
6 Others	17	13	...	1	...	...	...	...	...	2	7	...	...	...	...	...	...	...	...	...	...	...	...	...	14	6	...
Totals	96	303	20	2	3	...	...	4	1	31	99	13	...	1	...	...	...	...	...	...	...	...	...	...	63	196	6

419 154 265

	On Books 1/1/40	Admitted during 1940	No. treated during 1940	Discharged during 1940	On Books 31/12/40	On Appliance Supervision	Attendances during 1940
—5 years	189	123	312	134	178	—	702
5—6 years	494	218	712	242	470	—	2317
16 + years	446	275	721	278	387	56	1516
Totals	1129	616	1745	654	1035	56	4535

1091

The total number of patients treated was 1676.

In the summary at the bottom 69 patients are shown twice; 41 because they reached school-going age during the year, and 28 who attained adult age.

Also 73 cases seen by a Surgeon—no treatment found necessary.

The County Council scheme for the after-care of Tuberculosis patients is now in operation and during the year 1940, 41 cases were dealt with. The total cost of the grants made to these patients was £68.

The Midwifery Service.

Particulars of cases attended by Domiciliary Midwives :—

	Midwives By Salaried		By Independent Midwifes
No. of cases attended	1125	...	268
No. of times medical aid sent ...	405	...	83
(a) during pregnancy	50	...	7
(b) during labour	255	...	64
(c) during puerperium	50	...	3
(d) for infant	50	...	9
No. of still-births notified	39	...	12
No. of forceps deliveries	99	...	81
No. of deaths of infants, 1 month	25	...	6
No. of maternal deaths	3	...	1
No. of maternity cases	211	...	73

Midwives Act, 1918—Section 14.

The number of patients to whom medical aid was summoned by a certified midwife was 465, the total amount of the medical claims being £875 15s. 7d.

Ante-natal.

The following is the report of Mr. R. Owen Jones, F.R.C.S., County Obstetric Officer, upon the ante-natal work undertaken during the year 1940 :—

1. **Clinics.**

Total examinations at all clinics 4174

(a) *Ante-natal Clinics.*

Total examinations 3625
New cases 1361

(b) *Post-natal and gynaecological.*

Total examinations	549
New cases	386

2. **Ruabon Maternity Hospital.**

Admissions	207
Births	176
Ante-natals for treatment	20
Post-natal for operations	15
Miscarriages	5

3. Consultations 241

R. OWEN JONES,

County Obstetric Officer.

TABLE IX.

Maternity and Child Welfare.

The following table furnishes information for 1940 with regard to the Maternity and Child Welfare Centres established in the County :—

Address		Whether Sessions are held weekly or fortnightly	Day and Time of Meeting		Average attendance per session (Children).	Number of Children who attended for the first time.	Present arrangements for Medical Supervision
Southsea,	Church Institute	Fortnightly	Monday	a.m.	34	60	Assistant Med. Officer
Coedpoeth,	Penygelli Schools	,,	Monday	p.m.	43	81	,,
Llay,	Presbyterian Chapel	,,	Monday	p.m.	68	74	,,
Cefn,	County Clinic	Weekly	Monday	p.m.	77	235	,,
Brymbo,	Council School	Fortnightly	Tuesday	a.m.	30	52	,,
Broughton,	Church House	,,	Tuesday	p.m.	38	95	,,
Llanrwst,	Watling Street	,,	Wednesday	p.m.	25	49	,,
Glan C'way,	Church Institute	,,	Monday	p.m.	19	28	,,
Rhosrobin,	County Clinic	,,	Wednesday	a.m.	63	87	,,
Rhos,	Leeswood House	Weekly	Wednesday	p.m.	45	174	,,
Llangollen,	Welfare House	Fortnightly	Wednesday	p.m.	47	86	,,
Denbigh,	County Clinic	,,	Wednesday	p.m.	101	152	,,
Abergele,	Church House	,,	Thursday	p.m.	48	99	,,
Rhostyllen,	Council School	,,	Wednesday	a.m.	26	54	,,
Ruthin,	Baptist Chapel	,,	Tuesday	p.m.	63	188	,,
Chirk,	The Mount	,,	Thursday	p.m.	32	63	,,
Glynceiriog,	Ceiriog Institute	,,	Tuesday	p.m.	23	43	,,

Yearly Report on the work of the North Wales Society for the Blind in the County of Denbigh (1940-41).

The Society has this year 409 Registered Blind Persons excluding evacuees) under its care in the County of Denbigh. The area is divided between five Home Teachers who visit the Blind regularly and see to their needs in the way of extra nourishment, clothing, boots, etc., applications for which are forwarded to the Society for sanction. A great deal of work is also carried on in connection with " Prevention of Blindness " by the sanctioning of spectacles, hospital treatment, drops, etc.

Many Blind Persons are taught by the Home Teachers to read Braille and Moon Embossed type and also do Handwork.

Several Blind Persons have received training in Basketry etc., at various Institutions and in Denbighshire there are 14 Home Workers who forward goods for sale at the Bangor Depot. They each receive augmentation of 50% on their earnings from the Society. There are also 4 Workers in a Workshop in Chester.

Of the number of Registered Blind, 229 plus 30 evacuees are in receipt of Unemployable Blind Grants, which are paid on behalf of the County Council by the Society. Medical Aid is also granted on application to the County Council.

White walking sticks are supplied free of charge to all who apply for same.

Library Books are forwarded weekly from Bangor to readers.

Last Christmas 377 Blind Persons in the County received a gift of 4/- each, the total amount paid out being £175 8s. 0d. This money is mostly collected by children in the schools of the area and it is much appreciated. In addition to this gift, the County Council kindly allows a Christmas gift to all Blind Persons who are in receipt of an Unemployable Blind Grant.

Through the kindness of the Crosville Motor Company, 117 Bus Vouchers were distributed in Denbighshire. These vouchers enable the holders to travel within a radius of 12 miles from their homes, for the nominal sum of 2/6 per annum.

The war has brought 48 evacuees into the area. These are visited by the Home Teachers and grants are paid them through the Society.

In the Wrexham area Blind People continue to enjoy rambles, singing classes, teas, etc.

The Society has been very fortunate in realising one of its long desired aims—that of establishing a Home for the Blind in North Wales. This Home is situated in Abergele, and it is hoped that it will be officially opened early in the New Year.

CANCER.

The folowing table gives the deaths and death rates from Cancer according to Sanitary Districts :—

Districts	Deaths			Rate per 1000 Population
	Males	Females	Total	
Urban Districts				
Abergele	7	8	15	2.1
Colwyn Bay	16	34	50	2.0
Denbigh	7	5	12	1.4
Llangollen	4	4	8	2.5
Llanrwst	1	4	5	1.9
Ruthin Borough ...	1	3	4	1.1
Wrexham Borough ...	20	24	44	1 5
Rural Districts				
Aled	2	6	8	1.1
Ceiriog ...	4	3	7	.9
Hiraethog... ...	6	6	12	2.1
Ruthin ...	9	7	16	1.7
Wrexham	60	54	114	1.8
Whole County	137	158	295	1.7

Cancer Deaths—Age and Sex Distribution.

Age Group	Urban			Rural			Grand Total
	M.	F.	Total	M.	F.	Total	
Under 1 year ...	...	...		...	...		...
1—5 ...	...	...	...	...	...	...	.
5—15	...	...	...	...	1	1	1
15—45 ...	4	8	12	3	3	6	18
45—65 ...	23	26	49	27	28	55	104
Over 65 ...	29	48	77	51	44	95	172
Totals ...	56	82	138	81	76	157	295

Christie Hospital and Holt Radium Institute, Manchester.

Total number of Cancer cases	46
Total number of non-malignant	18
	—
	64
	—
Number referred by Voluntary Hospitals	62
Number referred by Public Assistance Hospitals	—
Number referred by General Practitioners	2
Number referred by Consultants	—
	—
	64
	—

Cancer Cases.	Total.	Number treated by Radiation, X-Ray, Surgery or Combined Techniques.	Number not treated. Unsuitable or too advanced.
Lip and Mouth ..	10	8	2
Breast	1	—	1
Skin	8	7	1
Cervix	6	5	1
Other Sites	21	7	14
	46	27	19
Non-Malignant Cases	18	8	10
	64	35	29

Chester Royal Infirmary.

Deep Therapy :—

In-patients	8
Out-patients	19

Radium :—

Total number of attendances at the Institution	48
Number of patients	26
Number of cases referred to Christie Hospital, Manchester	16

Liverpool Radium Institute and Hospital for Cancer.

In-patients from Denbighshire	18
Out-patients	9

Wrexham and East Denbighshire War Memorial Hospital.

No. of new patients referred from Wrexham Clinic in 1940	58
Total No. of attendances at Wrexham Clinic (old and new patients) in 1940	313
No. of 1940 referred cases treated in Wrexham	—

No. of 1940 referred cases treated in Radium Annexe, Prestbury :—

In-patients	6
Out-patients	—

No. of 1940 referred cases treated in Christie Hospital, Manchester :—

In-patients	11
Out-patients	7

No. of 1940 referred cases treated in Radium Annexe and Christie Hospital :—

In-patients	2
Out-patients	—

No. of 1940 cases not treated 32

Table showing comparison with previous years :—

	1936	1937	1938	1939
New Patients :—				
Treated	10		25	
Not treated	11		17	
	21	21	42	66
Examinations (old patients)	133	148	178	263
Total examinations (old and new patients)	154	169	220	329

REPORT OF MR. J. H. WYNNE, F.R.C.V.S., COUNTY VETERINARY OFFICER, FOR THE YEAR 1940.

Diseases of Animals Acts and Orders.

The Quarterly Reports of the Divisional Veterinary Inspector, Animal Health Division of the Ministry of Agriculture and Fisheries show the total number of cases of Scheduled (Notifiable) Diseases of Animals to be

Anthrax	1 confirmed case
Sheep Scab	11 confirmed cases
Swine Fever	16 confirmed cases
Tuberculosis	143 confirmed cases

Milk and Dairies Acts and Orders.

During the Year, 35 "Tuberculin Tested" Licences were issued, four of which were surrendered; and 396 Accredited Licences were issued under the Milk (Special Designation) Orders.

Tuberculosis (Attested Herds) Schemes of the Ministry of Agriculture.

There were 289 Attested Herds and 2 supervised herds in Denbighshire at the end of 1940.

Clinical Examination of Dairy Cattle.

(a) **Tuberculin Tested Herds.** (These are Clinically examined every 6 months, in addition to the Testing with Tuberculin).

2630 examinations were carried out, and only one cow had to be slaughtered under the Tuberculosis Order.

(b) **Accredited Herds** (Clinically examined every 3 months).

38,863 examinations were carried out and 97 of these cows were slaughtered under the Tuberculosis Order.

(c) **Non-designated Herds.** (Clinically examined every 6 months).

Denbighshire is the only County in North Wales where these Herds are periodically examined.

18,459 examinations resulted in the detection of 41 cows affected with Tuberculosis, and these were slaughtered under the Tuberculosis Order.

Tuberculin Testing of Herds Licensed to produce Tuberculin Tested and Certified Milk.

2308 Animals, including bulls, were Tuberculin Tested. 111 of these were Certified to be Reactors, and were removed from the herds.

Tracing Sources of Tuberculous Milk.

No. of investigations outstanding from 1939	5
No. of Positive reports resulting from the Biological examination of Milk samples	17
No. of Herds involved (including the 5 cases from 1939)	23
No. of cases of Tuberculosis of the Udder found ...	13
No. of cases outstanding at the end of 1940	3

(Signed) J. H. WYNNE.

TABLE X.

Public Health (Tuberculosis) Regulations, 1924.

District		No. of cases of Tuberculosis on Register at the commencement of the year		No. of cases notified for the first time under Regulations, 1912, during year		No. of cases removed from the Register during the year		No. of cases remaining on the Register at the end of the year	
		Pulmonary	Non-Pulmonary	Pulmonary	Non-Pulmonary	Pulmonary	Non-Pulmonary	Pulmonary	Non-Pulmonary
Abergele.	*Males*	14	1	6	2	3	...	17	3
	Females	22	4	3	1	1	1	24	4
Aled.	*Males*	37	23	5	3	2	...	40	26
	Females	49	17	4	2	2	...	51	19
Ceiriog.	*Males*	24	13	4	2	...	...	28	15
	Females	27	5	2	...	3	...	26	5
Colwyn Bay.	*Males*	64	28	20	4	11	3	73	29
	Females	64	32	8	6	8	2	64	36
Denbigh.	*Males*	12	8	6	2	3	2	15	8
	Females	16	8	10	3	5	...	21	11
*Hiraethog	*Males*	24	13	3	...	...	1	21	13
	Females	23	10	6	2	3	2	24	10

*Revision of Register by Dr. G. L. Travis.

Public Health (Tuberculosis) Regulations, 1924.—(Continued).

District		No. of cases of Tuberculosis on Register at the commencement of the year		No. of cases notified for the first time under Regulations, 1912, during year		No. of cases removed from the Register during the year		No. of cases remaining on the Register at the end of the year	
		Pulmonary	Non-Pulmonary	Pulmonary	Non-Pulmonary	Pulmonary	Non-Pulmonary	Pulmonary	Pulmonary
Llangollen Urban.	*Males*	4	1	2	1	2	...	4	2
	Females	13	...	3	...	1	...	15	...
Llanrwst Urban.	*Males*	7	7	3	1	...	3	8	6
	Females	1	7	1	...	...	...	3	9
Ruthin Borough.	*Males*	6	5	3	1	4	2	5	4
	Females	8	2	1	...	1	1	8	1
Ruthin Rural	*Males*	17	9	7	1	3	1	21	9
	Females	30	11	7	3	6	...	31	14
Wrexham Borough.	*Males*	69	48	22	3	6	1	85	49
	Females	62	21	16	6	7	...	71	27
Wrexham Rural.	*Males*	212	111	44	11	17	4	239	118
	Females	181	69	34	19	20	12	195	76
Totals		986	453	220	72	108	35	1089	494

TABLE XI.

Part I. Public Health (Tuberculosis) Regulations, 1930.

Summary of notifications during the period from the 1st January, 1940, to the 31st December, 1940, in the area of the County of Denbigh.

	FORMAL NOTIFICATION. Number of Primary Notifications of new cases of Tuberculosis.												Total Notifications
Age Groups	0—	1—	5—	10—	15—	20—	25—	35—	45—	55—	65—	Total	
Pulmonary Males	...	1	5	1	7	15	32	24	22	5	1	113	125
Pulmonary Females	...	1	2	2	16	24	28	8	2	2	4	89	95
Non-Pulmonary Males	2	5	3	4	2	5	2	3	2	1	...	29	30
Non-Pulmonary Females	3	10	5	4	9	3	5	2	1	...	...	42	42

Part II. Supplemental Return.

New cases of Tuberculosis coming to the knowledge of the Medical Officer of Health during the above mentioned period, OTHERWISE than by formal notification.

Age Groups	0—	1—	5—	10—	15—	20—	25—	35—	45—	55—	65—	Total
Pulmonary Males	...	...	...	...	...	...	...	...	...	...	...	...
Pulmonary Females	...	...	...	...	...	...	...	...	...	...	...	...
Non-Pulmonary Males	...	...	...	...	...	...	...	...	...	...	...	...
Non-Pulmonary Females	...	...	...	...	...	...	...	...	...	...	...	...

The source or sources from which information as to the above mentioned cases were obtained are given below :—

Source of information	No. of Cases	
	Pulmonary	Non-Pulmonary
Death Returns :		
From Local Registrars	...	...
Transferable deaths from Registrar	...	...
Posthumous notifications.....	...	...
"Transfers" from other areas (other than Transferable deaths)	...	...
Other sources, if any (specify)	...	...

NOTIFICATION REGISTER.

Part III.

	Pulmonary			Non-Pulmonary			
	Males	Females	Total	Males	Females	Total	Total cases
No. of cases of Tuberculosis remaining on December 31st, 1940, on the Register of Notifications kept by the District Medical Officers of Health in the County	556	533	1089	282	212	494	1583
No. of cases removed from the Registers during the year	51	57	108	17	18	35	143

TABLE XII. VENEREAL DISEASES.

The following statistics, taken from the Returns supplied by the Treatment Centres, show the work undertaken during the year ended 31/12/40.

Clinic	Persons attending for the first time at Out-patient Clinic suffering from								Total attendances at Out-patient Clinic		No. of In-Patient days		No. of Persons treated with Salvarsan Substitutes	
	Syphilis		Soft Chancre		Gonorrhoea		Non-Venereal Condition							
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Wrexham	21	8	—	—	68	21	18	8	1056	792	232	117	46	40
Chester	4	2	—	—	2	9	—	—	136	35	—	—	41	20
Bangor	2	2	—	—	—	—	—	—	—	—	—	—	10	15
Totals	27	12	—	—	70	30	18	8	1192	827	232	117	97	75

TABLE XVI.

CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE IN THE ADMINISTRATIVE COUNTY OF DENBIGH, 1940.

CAUSES OF DEATH.	Sex	Aggregate of Urban Districts							Aggregate of Rural Districts						
		All Ages	0—	1—	5—	15—	45—	65—	All Ages	0—	1—	5—	15—	45—	65—
ALL CAUSES	M	546	51	13	13	37	148	284	730	60	24	18	86	180	362
	F	599	36	17	11	60	123	352	671	45	26	21	65	150	364
1 Typhoid & Paratyphoid Fevers	M	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2 Cerebro-Spinal Fevers...	M	9	5	...	1	2	1	...	8	1	3	1	3	...	...
	F	5	1	...	1	1	1	1	8	1	3	1	2	1	...
3 Scarlet Fever	M	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	1	...	...	1	...	...	...
4 Whooping Cough ...	M	2	1	...	1	...	...	...	1	...	1	...	...	...	...
	F	1	1	...	...	...	...	...	1	...	1	...	...	...	...
5 Diphtheria...	M	2	...	...	2	...	...	...	4	...	...	4	...	...	...
	F	6	...	3	3	...	...	...	9	...	3	5	1	...	...
6 Tuberculosis of Respiratory System ...	M	16	...	...	...	4	11	1	24	...	...	...	13	8	3
	F	20	...	...	...	17	2	1	21	...	...	1	16	3	1
7 Other forms of Tuberculosis	M	5	...	...	1	3	1	...	2	1	...	1	...	...	...
	F	7	...	3	1	2	1	...	10	2	3	1	3	1	...
8 Syphilitic Diseases ...	M	6	...	...	...	...	4	2	3	...	...	...	1	...	2
	F	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9 Influenza	M	31	...	3	1	5	9	13	24	1	...	1	4	9	9
	F	23	...	...	1	1	5	16	12	...	...	...	1	6	5
10 Measles	M	...	...	...	...	...	...	...	1	...	1	...	...	...	...
	F	1	1	...	...	...	...	...	1	...	...	1	...	...	...
11 Ac. Polio-myel. & Polio-enceph.	M	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12 Ac. Inf. Enceph. ...	M	...	...	...	...	...	...	...	1	...	...	...	...	...	1
	F	1	...	...	...	...	1	...	...	...	...	...	...	...	...
13 Cancer of buc. cav. & oesoph. (m), uterus (f)	M	3	...	...	...	...	1	2	13	...	...	...	...	3	10
	F	8	...	...	...	2	4	2	6	...	...	...	...	4	2
14 Cancer of stomach & duodenum	M	17	...	...	...	...	10	7	22	...	...	...	...	9	13
	F	16	...	...	...	1	4	11	19	...	...	...	...	3	16
15 Cancer of breast... ...	M	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	17	...	...	...	2	6	9	13	...	...	...	2	6	5
16 Cancer of all other sites	M	36	...	...	...	4	12	20	46	...	...	...	3	15	28
	F	41	...	...	...	3	12	26	38	...	...	1	1	15	21
17 Diabetes	M	4	...	...	...	...	1	3	6	...	...	...	1	2	3
	F	9	...	...	...	2	3	4	5	...	...	...	...	1	4
18 Intra-cranial vascular lesions	M	48	...	...	...	...	11	37	68	...	...	...	2	9	57
	F	98	...	...	...	1	18	79	90	...	...	...	1	21	68
19 Heart Disease	M	120	...	...	1	2	29	88	149	...	...	1	8	34	106
	F	119	...	...	1	7	23	88	138	...	1	1	2	30	104
20 Other dis. of circ. system	M	14	...	...	...	...	4	10	12	...	...	...	1	...	11
	F	30	...	1	...	...	1	28	7	...	...	...	...	1	6
21 Bronchitis	M	49	3	1	...	...	13	32	68	4	3	...	3	17	41
	F	38	3	2	...	2	5	26	59	4	1	...	...	13	41
22 Pneumonia	M	45	13	4	1	4	8	15	51	9	7	3	4	14	14
	F	33	6	5	...	1	3	18	40	6	8	1	8	5	12
23 Other resp. diseases ...	M	8	...	...	1	...	5	2	18	...	1	...	2	8	7
	F	10	...	...	...	1	5	4	8	...	...	...	1	4	3
24 Ulcer of stomach or duodenum	M	5	...	...	...	3	2	...	7	...	...	...	2	5	...
	F	1	...	...	...	...	1	...	2	...	...	...	1	1	...
25 Diarrhoea, under 2 years	M	2	2	...	...	...	...	...	6	5	1	...	...	...	...
	F	1	1	...	...	...	...	...	3	3	...	...	...	...	...
26 Appendicitis	M	4	...	...	1	...	1	2	3	...	1	...	2	...	...
	F	2	...	...	...	1	...	1	4	...	...	...	...	1	3
27 Other digestive diseases	M	9	1	...	...	2	4	2	19	2	2	1	...	8	6
	F	11	...	1	1	...	3	6	12	...	2	1	2	3	4
28 Nephritis	M	17	...	1	...	...	6	10	28	...	...	...	4	7	17
	F	15	...	...	...	1	8	6	27	...	...	...	2	8	17
29 Puer. & Post-abort. sepsis	M	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	2	...	...	...	2	...	...	1	...	...	...	1	...	...
30 Other maternal causes...	M	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	6	...	...	...	6	...	...
31 Premature Birth... ...	M	10	10	...	...	...	...	...	15	15	...	...	...	...	...
	F	15	15	...	...	...	...	...	11	11	...	...	...	...	...
32 Con. mal. birth inj. infant dis.	M	15	14	...	...	1	...	...	16	15	...	...	1	...	...
	F	6	5	...	...	1	...	...	16	15	1	...	...	...	...
33 Suicide	M	4	...	...	...	1	3	...	7	...	...	...	4	2	1
	F	1	...	...	...	1	...	...	3	...	...	...	1	2	...
34 Road Traffic acc. ...	M	7	...	...	2	4	...	1	13	...	1	...	6	4	2
	F	1	...	...	1	...	...	...	1	...	...	1	...	...	...
35 Other violent causes ...	M	7	2	...	1	...	2	2	36	1	2	4	11	12	6
	F	17	...	...	1	2	4	10	22	...	...	1	7	5	9
36 All other causes	M	51	...	4	...	2	10	35	59	6	1	2	11	14	25
	F	44	3	2	1	9	13	16	77	3	3	5	7	16	43